

# Annual Report Sections

Introduction

§ Model Development

§ Calibration & Validation of Existing Models

§ Developing Boundary Conditions & Field Relationships

§ Modeling Tools & Approaches

§ Outreach



# Annual Report 2004

- Chapter 1: Introduction
- Chapter 2: REALM Update
  - Update on the progress made in the River, Estuary, and Land Model development.
- Chapter 3: Comparing DSM2 Results With Updated DWR and USGS Field Data
  - Validate current performance of DSM2.



# Annual Report 2004

- Chapter 4: Modeling DO & Temp. in Planning Studies
  - Explain the procedure used to develop the 16-year boundary conditions for DO & Temp in planning studies.
- Chapter 5: Calculating Clifton Court Forebay Inflow
  - Describe the regressions used to calculate flow through the CCF gates.



# Annual Report 2004

- Chapter 6: Calculating NDO in CALSIM and DSM2
  - Discuss difference.
- Chapter 7: Updates to the DSM2 Database
  - List changes & updates.



# Annual Report 2004

- Chapter 8: Real-Time Data Forecasting Development Tasks & Proof of Concept
  - Update on MWQI's water quality forecasting tool.
- Chapter 9: Using QUAL Fingerprinting Results to Develop DOC Constraints in CALSIM
  - Detailed explanation of the methodology used to create volume – flow relationships.



# Annual Report 2004

- Chapter 10: Development of Tidal Analysis Routines
  - RMA2 Tidal Analysis package developed by DWR to calculate tidal datums and stage.
- Chapter 11: Website and DSM2 Users Group
  - Introduction of new website & Users Group.

